



Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

TIDEWATER REGIONAL OFFICE
5636 Southern Boulevard, Virginia Beach, Virginia 23462
(757) 518-2000 FAX (804) 698-4178
www.deq.virginia.gov

Matthew J. Strickler
Secretary of Natural and Historic Resources

David K. Paylor
Director
(804) 698-4000

Craig R. Nicol
Regional Director

September 14, 2021

Mr. Kevin E. Robinson
Plant Manager
Arkema Inc. - Franklin Plant
27047 Shady Brook Trail
Courtland, Virginia 23837

Location: Southampton
Registration No.: 61440

Dear Mr. Robinson:

Attached is a renewal Title V permit to operate your facility pursuant to 9VAC5 Chapter 80 Article 1 of the Virginia Regulations for the Control and Abatement of Air Pollution. The attached permit will be in effect beginning September 14, 2021.

In the course of evaluating the application and arriving at a final decision to issue this permit, the Department of Environmental Quality (DEQ) deemed the application complete on August 26, 2019, and solicited written public comments by placing a newspaper advertisement in the Tidewater News on Wednesday, June 30, 2021. The thirty-day required comment period, provided for in 9VAC5-80-270, expired on Friday, July 30, 2021.

This permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and/or civil charges. Please read all permit conditions carefully.

This permit approval to operate shall not relieve Arkema Inc. of the responsibility to comply with all other local, state, and federal permit regulations.

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code 5-170-200 provide that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this case decision notice was mailed or delivered to you. Please consult the relevant regulations for additional requirements for such requests.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date you actually received this permit or the date on which it was mailed to you, whichever occurred first, within which to initiate an appeal of this decision by filing a Notice of Appeal with:

David K. Paylor, Director
Department of Environmental Quality
PO Box 1105
Richmond, VA 23218

If this permit was delivered to you by mail, three days are added to the thirty-day period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for information on the required content of the Notice of Appeal and for additional requirements governing appeals from decisions of administrative agencies.

If you have any questions concerning this permit, please contact Jeremy Funkhouser at jeremy.funkhouser@deq.virginia.gov or 540-574-7820.

Sincerely,



Craig R. Nicol
Regional Director

Attachment: Permit

cc: File DEQ-TRO
Director, OAPP (via email)
Chief, Air Enforcement Branch (3AP20), U.S. EPA, Region III (via email)
DEQ Air Compliance Manager (via email)



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Federal Operating Permit
Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9VAC5-80-50 through 9VAC5-80-300, of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: Arkema Incorporated
Facility Name: Arkema Incorporated - Franklin Plant
Facility Location: 27047 Shady Brook Trail
Courtland, Virginia 23837-2034
Registration Number: 61440
Permit Number: TRO-61440

This permit includes the following programs:
Federally Enforceable Requirements - Clean Air Act (Pages 3 through 25)
State Only Enforceable Requirements (Page 26)

September 14, 2021
Effective Date

September 13, 2026
Expiration Date

September 14, 2021
Signature Date

Craig R. Nicol

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Facility Information

Permittee

Arkema Incorporated
900 First Avenue
P.O. Box 61536
King of Prussia, Pennsylvania 19406-0936

Responsible Official

Mr. Kevin Robinson
Plant Manager
(757) 569-2936
Kevin.robinson@arkema.com

Facility

Arkema Incorporated - Franklin Plant
27047 Shady Brook Trail
Courtland, VA 23837-2034

Contact Person

Ms. Hillary Brock
Environmental Health and Safety Manager
757-569-2941
hbrock@solenis.com

Federal Identification Number: VA0000005117500058

NAICS:

SIC: 2869 - Industrial Organic Chemicals, Not Elsewhere Classified

Facility Description

The main manufacturing process at this facility is the Vulcup® process which produces various organic peroxides, blends of the peroxides, and support grades of the peroxides on solid substrate materials.

Emission Units

The following naming system was used to identify emission units, stacks/vents, and control equipment associated with the Vulcup® process. Two letters VC is for the Vulcup® process. A third letter "E", "S", or "C" denotes an emission unit or group of units, stack/vent, or control device, respectively. The next two numbers are essentially consecutive numbers used for each category to indicate a unit or a group of units with common function. For example VCE01 represents the emission group in the first step of the Vulcup® process. Each emission unit in VCE01 is then identified by its own separate equipment ID number. Stack/vents and control devices are always individual units, e.g. VCS01 and VCCO5 are stack 01 and control device 05, respectively, hence, no further identification is necessary.

Equipment to be operated at the Franklin Plant facility consists of the following:

RAW MATERIAL FEED / STORAGE TANKS - VCE01

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
T-102	VCS01	VOC Storage Tank, 1970	--	--	--	--	--
T-104	VCS02	VOC Storage Tank, 1970	--	--	--	--	--
T-108	VCS03	Caustic Storage Tank	--	--	--	--	--
T-300	VCS04	VOC Feed Tank, 1970	--	--	--	--	--

REACTOR – VCE02

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
R-200	VCS05	Reactor, 1971	--	--	--	--	--

INTERMEDIATE PROCESSING – VCE03

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
T-202	VCS06	Intermediate Tank, 1970	--	--	--	--	--
T-204	VCS08	Intermediate Tank, 1970	--	--	--	--	--
T-312A	VCS09	Wastewater Tank, 2006	--	--	--	--	--

RAW MATERIAL FEED / STORAGE (SOLVENTS) TANKS – VCE05

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
T-306	VCS11	VOC Tank, 1970	--	--	--	--	--
T-100	VCS12	VOC Tank, 1970	--	--	--	--	--

INTERMEDIATE PROCESSING – VCE06

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
T-206	VCS14	Process Unit, 1970	--	--	--	--	--
T-208	VCS15	Intermediate Tank, 1970	--	--	--	--	--
S-210	VCS16	Process Unit, 1970	--	--	--	--	--
V-E-208	VCC16c	Process Condenser System, 1995, for recover of solvents from vents VCS 04, 06, 08, 15, 16, and 16a	--	--	--	--	--
S-210A	VCS16	Process Unit, 2014	--	--	--	--	--

PROCESSING UNITS – VCE06A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
G-212	VCS16a	Process Unit, 1970	--	--	--	--	--
C-401	VCS16b	Process Unit, 1970	--	--	--	--	--

SOLVENT RECOVERY – VCE07

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
T-302	VCS13	VOC Tank, 1970	--	--	--	--	--
T-304 -5	VCS17	Batch still, recovery tank, 1970	--	--	--	--	--

RAW MATERIAL STORAGE / FEED TANKS – VCE08

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
T-112	VCS18	VOC Storage Tank, 1981	--	--	--	--	--
T-113	VCS19	VOC Storage Tank, 1981	--	--	--	--	--
T-314	VCS19a	VOC Storage Tank, 1970	--	--	--	--	--
T-406	VCS20	VOC Storage Tank, 1970	--	--	--	--	--
T-320	VCS21	VOC Tank, 1970	--	--	--	--	--
T-308	VCS38	Blended Grade Tank, 1970	--	--	--	--	--
T-301	VCS40	VOC Tank, 1981	--	--	--	--	--

REACTORS – VCE09

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
R-404	VCS22	Reactor, 1998	--	--	--	--	--
R-404A	VCS23	Reactor, 1996	--	--	--	--	--

PRODUCT PROCESSING – VCE10

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
T-410	VCS24	Process Tank, 1970	--	--	--	--	--
T-402	VCS25	Caustic Blend Tank, Closed Top, 1974	--	--	--	--	--
T-312B	VCS26	Wastewater tank, 2006	--	--	--	--	--

RECOVERY PROCESSING – VCE10A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
T-313	VCS27	Recovery Tank, 1977	--	--	--	--	--

EVAPORATION – VCE11

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
T-412	VCS28	Feed Tank, 1970	--	--	--	--	--
T-416	VCS29	Hotwell, 1993	--	--	--	--	--
T-303	VCS29a	Separator Tank, 1979	--	--	--	--	--
T-305	VCS29b	Separator Tank, 1970	--	--	--	--	--

SOLVENT RECOVERY – VCE12

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
T-318	VCS30	VOC Feed Tank, 2018	--	--	--	--	--

PRODUCT STORAGE TANKS – VCE13

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
T-418A	VCS31	Vulcup R Product Tank, 1970	--	--	--	--	--
T-418B	VCS32	Vulcup R Product Tank, 1970	--	--	--	--	--
T-418C	VCS33	Vulcup R Product Tank, 1979	--	--	--	--	--
T-418D	VCS34	Vulcup R/D-16 Product Tank, 1979	--	--	--	--	--
T-419	VCS35	Vulcup R/D-16 Product Tank, 1994	--	--	--	--	--

PRODUCT BLENDING PROCESS – VCE13A

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
--	VCS36 VCS37 VCS39	Finished Product Blending Process (solid and liquid) Three Blending Tanks and Liquid Packaging	--	--	--	--	--

PACKAGING AREA – VCE14

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
VCE14	VCS41	Solids Packaging Area	--	Baghouse fabric filter, 99+% CF	VCO05	PM/PM-10	--

*The Size/Rated capacity and PCD efficiency is provided for informational purposes only, and is not an applicable requirement.

Process Equipment Requirements - (Emission Groups VCE01 through VCE14)

Limitations

1. Process Equipment Requirements - (Emission Unit ID# VCE14) - Limitations - Particulate emissions from the packaging area (VCE14) shall be controlled by fabric filters (VCC05). The fabric filters shall be provided with adequate access for inspections.
(9VAC5-80-110)
2. Process Equipment Requirements - (Emission Unit ID# VCE14) - Limitations - Particulate emissions from the fabric filter exhaust (VCS41) shall not exceed the process weight limit as determined by the following equation:

$$E = 4.10P^{0.67}$$

Where:

E = Emission rate in lbs/hr

P = Process weight rate in tons/hr

Compliance with this condition may be determined as stated in Conditions 3, 5, and 6.
(9VAC5-80-110 and 9VAC5-40-260)

3. Process Equipment Requirements - (Emission Unit ID# VCE14) - Limitations - Visible emission emissions from the fabric filter exhaust (VCS41) shall not exceed twenty percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed sixty percent opacity.
(9VAC5-80-110 and 9VAC5-40-80)
4. Process Equipment Requirements -Limitations - Fugitive Volatile Organic Compound (VOC) emissions from containers, tanks, vats, drums, and transfer piping systems shall be minimized by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing such emissions. Equipment, containers, tanks, vats, drums, and piping systems located at the facility shall be free of cracks, holes, leaks, and other defects that would otherwise result in unnecessary emissions of VOCs to the atmosphere. VOCs shall not be intentionally spilled, discarded in sewers which are not connected to a treatment, plant, or stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing such emissions.
(9VAC5-80-110 and 9VAC5-50-20 F)

Monitoring

5. Process Equipment Requirements - (Emission Unit ID# VCE14) - Monitoring - The fabric filters shall be inspected every month (month being defined as from the first day through the last day of the month, i.e. January 1st to 31st). The inspection results shall be recorded

in an inspection log, including the date, name of the inspector, inspection results, and any necessary corrective action. Fabric filter bags shall be replaced as necessary.
(9VAC5-80-110)

6. Process Equipment Requirements - (Emission Unit ID# VCE14) - Monitoring - The permittee shall check the fabric filter exhaust (VCS41) at least once per day during the daylight hours of operations for visible emissions for at least six minutes. If visible emissions are noted from any vent/stack, operational adjustment or maintenance shall be performed to eliminate the visible emissions. If visible emissions continue after the corrective actions, a visible emissions evaluation (VEE) shall be immediately conducted on each vent/stack for at least six minutes in accordance with 40 CFR 60, Appendix A, Method 9. If the VEE opacity average for any vent/stack exceeds 10 percent, the VEE shall continue for one hour from initiation to determine compliance with the opacity limit. Results of the observations and/or the VEEs shall be recorded in the operation log. Records of the observations shall include the following:
 - a. The name of the observer;
 - b. Date and time of the observation;
 - c. An indication of the presence or absence of visible emissions;
 - d. The color of the visible emissions;
 - e. Whether the visible emissions are representative of normal operation;
 - f. If the visible emissions are not representative of normal operations, the cause of the abnormal emissions; and
 - g. The duration of any visible emission, incident and any corrective actions taken to eliminate the visible emissions.

If a VEE is conducted, records shall be in accordance with 40 CFR 60, Appendix A, Method 9.
(9VAC5-80-110 E)

7. Process Equipment Requirements - Maintenance / Operating Procedures / Training – The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment (VCC05):
 - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance activities;
 - b. Maintain an inventory of spare parts;

- c. Have available written operating procedures for the equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum; and
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the appropriate written operating procedures. The permittee shall maintain records of the training provided, including the names of trainees, the date of training and .the nature of the training.

(9VAC5-80-110 and 9VAC5-40-20E)

Recordkeeping

8. Process Equipment Requirements - Recordkeeping - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
 - a. Records of the fabric filter(s) inspections, and any corrective actions undertaken;
 - b. Records of the daily visible emission checks, any corrective actions taken to reduce visible emissions, and visible emissions evaluations (VEEs) performed;
 - c. Records of scheduled and unscheduled maintenance, inventory of spare parts, training records, and operating procedures for equipment, as required in Condition 7; and
 - d. Records of any pollutant-specific emission factors, calculation methods, and all information needed to calculate annual actual emissions for the facility's annual Emission Statement Report as required in Condition 11.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.

(9VAC5-80-110)

Testing

9. Process Equipment Requirements - Testing - The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods.. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9VAC5-80-110 and 9VAC5-40-30)

10. Process Equipment Requirements - Testing - If testing to demonstrate compliance is conducted in addition to the monitoring specified in this permit, the permittee shall use the following test methods in accordance with procedures approved by the DEQ as follows:

PM / PM-10	40, CFR 60, Appendix A, Methods 5 and 17
Visible Emissions	40 CFR 60, Appendix A, Method 9

(9VAC5-80-110)

Reporting

11. Process Equipment Requirements - Reporting - The permittee shall file an annual Emissions Statement with the Department of Environmental Quality no later than **April 1st** of each calendar year, in accordance with the provisions of 9VAC5-20-121.
(9VAC5-80-110 G 6 and 9VAC5-20-121)

Insignificant Emission Units

12. Insignificant Emission Units - The following emission units at the facility are identified in the application as insignificant emission units under 9VAC5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutants Emitted (9VAC5-80-720B)	Rated Capacity (9VAC5-80-720C)
V-321	Floor Drains Collection Tank	9VAC5-80-720 B 2	VOC	NA
V-310	Sodium Carbonate Tank	9VAC5-80-720 A 42	NA	NA
T-511	Tote Cleaning Vat	9VAC5-80-720 B 2	VOC	NA
T-512	Tote Cleaning Vat Water System	9VAC 5-80-720 B 2	VOC	NA
T-611	Tote Cleaning Vat	9A/AC 5-80-720 B 2	VOC	NA
T-612	Tote Cleaning Vat Water System	9VAC5-80-720 B 2	VOC	NA
T-501	Support Grade Water System	9 VACS-80-720 B 1&2	PM/PM-10 & VOC	NA
T-507	Support Grade Water System	9VAC5-80-720 B 1&2	PM/PM-10 & VOC	NA
Unassigned	Sample Melter for Support Grade Rework	9VAC5-80-720 B 1&2	PM/PM-10 & VOC	NA
Unassigned	Totes/Drums for Support Grade Packing	9VAC5-80-720 B 1&2	PM/PM-10 & VOC	NA
V-323	Hot Water System	9VAC5-80-720 B 1 - 4	All criteria pollutants	NA
Unassigned	Warehousing/ Storage/Offices	9VAC 5-80-720 A 5 9VAC5-80-720 B 1-4	All criteria pollutants	NA
Unassigned	Clay and Bead handling system	9VAC5-80-720 B 1&2	PM/PM-10	NA
Unassigned	Solid Peroxide Melting	9VAC5-80-720 B 1&2	PM/PM-10 & VOC	NA
Unassigned	Solid Peroxide Grinding	9VAC5-80-720 B 1&2	PM/PM-10 & VOC	NA
T106	Wastewater pH adjustment	9VAC5-80-720 B 1&2	PM/PM-10 & VOC	NA
T107	Sulfuric Acid Tank	9VAC5-80-720 B 1&2	PM/PM-10 & VOC	NA
T107A	Sulfuric Acid Tank	9VAC5-80-720 B 1&2	PM/PM-10 & VOC	NA
Unassigned	EZ Breaker Tote 1	9VAC5-80-720 B 1&2	PM/PM-10 & VOC	NA
Unassigned	EZ Breaker Tote 2	9VAC5-80-720 B 1&2	PM/PM-10 & VOC	NA

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9VAC5-80-110. (9VAC5-80-110)

Permit Shield & Inapplicable Requirements

13. Permit Shield & Inapplicable Requirements - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR 60 Subpart Kb	NSPS for Volatile Organic Liquid Storage Vessels (including Petroleum Liquid Storage Vessels) for which construction, reconstruction, or modification commenced after July 23, 1984 (as amended on October 15, 2003)	Volatile Organic Liquid storage vessels that are constructed, reconstructed; or modified after July 23, 1984, and have a capacity greater than or equal to 75m ³ . Exceptions apply to vessels with a capacity greater than or equal to 151 m ³ storing a liquid with a maximum true vapor pressure less than 3.5 kPa, or with a capacity greater than or equal to 75 m ³ but less than 151m ³ storing a liquid with a maximum true vapor pressure less than 15.0 kPa.
40 CFR 60 Subpart III	NSPS for VOC Emissions from the Synthetic Organic Chemical Manufacturing Industry (SOMCI) air oxidation unit processes	SOCMI air oxidation unit that were constructed, modified, or reconstructed after October 21, 1983, and produce chemicals listed in 40 CFR 60.617 as a product,co-product, by-product, or intermediate.
40 CFR 60 Subpart NNN	NSPS for VOC Emissions from SOCMI distillation operations	SOCMI distillation units (as defined in 40 CFR 60.661) that were constructed, modified, or reconstructed after December 20, 1983, and produce chemicals listed in 40 as a product, co-product, by-product, or intermediate.
40 CFR 60 Subpart RRR	NSPS for VOC Emissions from SOCMI reactor processes.	SOCMI reactor processes that were constructed, modified, or reconstructed after June 29,1990, and produce chemicals listed in 40 CFR 60.707 as a product, co-product, by-product, or intermediate, and ,were not batch operations (as defined in 40 CFR 60.701).

Citation	Title of Citation	Description of Applicability
40 CFR 60 Subpart VV and VVa	NSPS for equipment leaks of VOC in SOCFMI	SOCMI equipment (as defined in 40. CFR 60.481) that was constructed, modified, or reconstructed after January 1, 1981, and on or Before November 7, 2006 as well as (after November 7, 2006), and produce chemicals listed in 40 CFR 60.489 as a final product or intermediate.
40 CFR 63 Subparts F, G, H, and I	Hazardous Organic NESHP (HON) MACT	SOCMI major HAP sources that meet the criteria of 40 CFR 63.100 (b) (1) to (3).
40 CFR 63 Subpart Q	Cooling Tower MACT	Facilities that had previously used chromium-based water treatment chemicals In the cooling towers.
40 CFR 63 Subpart FFFF	NESHP Standards for Miscellaneous Organic Chemical Manufacturing (MON)	Miscellaneous organic chemical manufacturing process units that are located at, or are a part of major source of HAP emissions.
40 CFR 63 Subpart VVVVVV	NESHP Standards for Chemical Manufacturing Area Sources	Applicable to chemical manufacturing area sources that process, use, produce, or generate any of the 15 chemical manufacturing urban HAP compounds named in the MACT.
9 VAC 5-40-300	Standard for VOCs for General Process Operations	Facilities located in the Northern Virginia or Richmond Emission Control Area as defined in 9 VAC5-20-206.
9 VAC 5-40-3410 et seq. (Rule 4-25)	Emission Standards for VOC Storage and Transfer Operations	Facilities located in a VOC control area as defined in 9 VAC 5-20-206.

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
 (9VAC5-80-110 and 9VAC5-80-140)

General Conditions

14. Federal Enforceability - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9VAC5-80-110)

15. Permit Expiration
 - a. This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9VAC5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
 - b. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
 - c. If an applicant submits a timely and complete application for an initial permit or renewal under 9VAC5-80-80 F, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9VAC5 Chapter 80, until the Board takes final action on the application under 9VAC5-80-150.
 - d. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9VAC5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9VAC5 Chapter 80.
 - e. If an applicant submits a timely and complete application under section 9VAC5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9VAC5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
 - f. The protection under subsections F 1 and F 5 (ii) of section 9VAC5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9VAC5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)

16. Recordkeeping and Reporting - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

- a. The date, place as defined in the permit, and time of sampling or measurements;
- b. The date(s) analyses were performed;
- c. The company or entity that performed the analyses;
- d. The analytical techniques or methods used;
- e. The results of such analyses; and
- f. The operating conditions existing at the time of sampling or measurement.

(9VAC5-80-110)

17. Recordkeeping and Reporting - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

(9VAC5-80-110)

18. Recordkeeping and Reporting - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31; and
- b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
 - i. Exceedances of emissions limitations or operational restrictions;
 - ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring or periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 - iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semiannual reporting period."

(9VAC5-80-110)

19. Annual Compliance Certification - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

- a. The time period included in the certification. The time period to be addressed is January 1 to December 31;
- b. The identification of each term or condition of the permit that is the basis of the certification;
- c. The compliance status;
- d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;
- e. Consistent with subsection 9VAC5-80-110, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;
- f. Such other facts as the permit may require to determine the compliance status of the source; and
- g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov

(9VAC5-80-110)

20. Permit Deviation Reporting - The permittee shall notify the Tidewater Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semiannual compliance monitoring report pursuant to Condition 18 of this permit.
(9VAC5-80-110 F.2)
21. Failure/Malfunction Reporting - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall no later than four daytime business hours after the malfunction is discovered, notify the Tidewater Regional Office such failure or malfunction and within 14 days provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Tidewater Regional Office.
(9VAC5-80-110 and 9VAC5-20-180)
22. Severability - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9VAC5-80-110)
23. Duty to Comply - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9VAC5-80-110)
24. Need to Halt or Reduce Activity not a Defense - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9VAC5-80-110)
25. Permit Modification - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9VAC5-80-50, 9VAC5-80-1100, 9VAC5-80-1605, or 9VAC5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9VAC80-110, 9VAC5-80-190, and 9VAC5-80-260)

26. Property Rights - The permit does not convey any property rights of any sort, or any exclusive privilege.
(9VAC5-80-110)
27. Duty to Submit Information - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9VAC5-80-110)
28. Duty to Submit Information - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9VAC5-80-80 G.
(9VAC5-80-110)
29. Duty to Pay Permit Fees - The owner of any source for which a permit was issued under 9VAC5-80-50 through 9VAC5-80-300 shall pay annual emissions fees, as applicable, consistent with the requirements of 9VAC5-80-310 through 9VAC5-80-350 and annual maintenance fees, as applicable, consistent with the requirements of 9VAC5-80-2310 through 9VAC5-80-2350.
(9VAC5-80-110, 9VAC5-80-310 et seq., and 9VAC5-80-2310 et seq.)
30. Fugitive Dust Emission Standards - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:
 - a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
 - b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
 - c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;

- d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
- e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9VAC5-80-110 and 9VAC5-40-90)

31. Startup, Shutdown, and Malfunction - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9VAC5-80-110 and 9VAC5-40-20 E)

32. Alternative Operating Scenarios - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9VAC5 Chapter 80, Article 1.

(9VAC5-80-110)

33. Inspection and Entry Requirements - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

- a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
- b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
- c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
- d. Sample or monitor at reasonable times' substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9VAC5-80-110)

34. Reopening for Cause - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9VAC5-80-80 F. The conditions for reopening a permit are as follows:
- a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
 - b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
 - c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9VAC5-80-110 D.

(9VAC5-80-110)

35. Permit Availability - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
(9VAC5-80-110 and 9VAC5-80-150)

36. Transfer of Permits

- a. No person shall transfer a permit from one location to another, unless authorized under 9VAC5-80-130, or from one piece of equipment to another.
- b. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9VAC5-80-200.
- c. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9VAC5-80-200.

(9VAC5-80-110 and 9VAC5-80-160)

37. Permit Revocation or Termination for Cause - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9VAC5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations. (9VAC5-80-110, 9VAC5-80-190 C, and 9VAC5-80-260)
38. Duty to Supplement or Correct Application - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit. (9VAC5-80-110 and 9VAC5-80-80 E)
39. Stratospheric Ozone Protection - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F. (9VAC5-80-110 and 40 CFR Part 82)
40. Asbestos Requirements - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150). (9VAC5-60-70 and 9VAC5-80-110)
41. Accidental Release Prevention - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68. (9VAC5-80-110 and 40 CFR Part 68)
42. Changes to Permits for Emissions Trading - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (9VAC5-80-110)

43. Emissions Trading - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
- a. All terms and conditions required under 9VAC5-80-110, except subsection N, shall be included to determine compliance.
 - b. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
 - c. The owner shall meet all applicable requirements including the requirements of 9VAC5-80-50 through 9VAC5-80-300.

(9VAC5-80-110)

State-Only Enforceable Requirements

44. State-Only Enforceable Requirements - The following terms and conditions are not required under the federal Clean Air Act or under any of its applicable federal requirements, and are not subject to the requirements of 9VAC5-80-290 concerning review of proposed permits by EPA and draft permits by affected states:

- a. The facility is subject to the Emission Standards for Odor in 9VAC5-40-130 et seq. (Rule 4-2), and the Standards of Performance for Odorous Emissions in 9VAC5-50-130 et seq. (Rule 5-2).

(9VAC5-80-110 N and 9VAC5-80-300)